MARCH 17, 2022

CTT @ DANSKE BANK SMALL & MID CAP SEMINAR





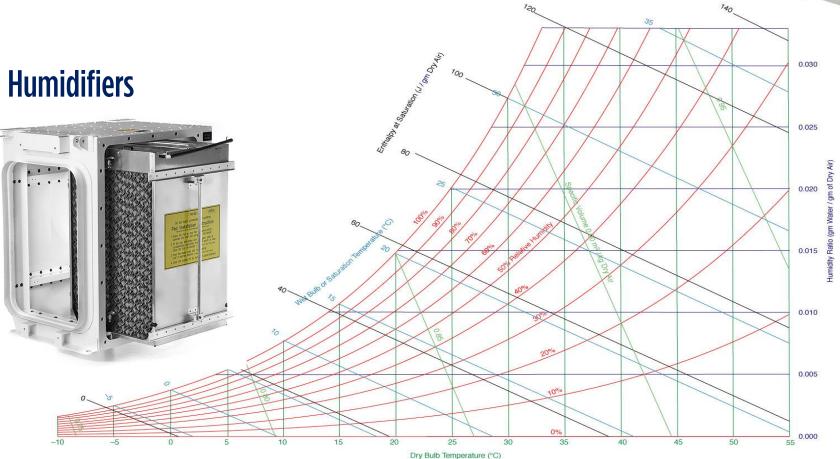
TORBJÖRN JOHANSSON



MARKUS BERG

Active Humidity Control in Aircraft

Passive means do not solve the root-cause of condensation / dry air

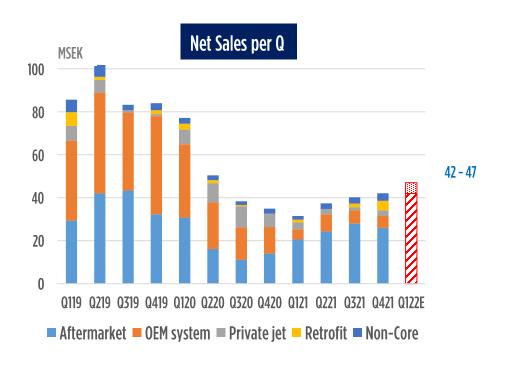




De-Humidifiers

CTT is a smaller but stronger company

- ☐ Handled supply chain and deliverables in the pandemic
- Remained profitable Continuous investments in projects
- Ready for turn-around and benefit from market drivers growing stronger in the wake of the pandemic

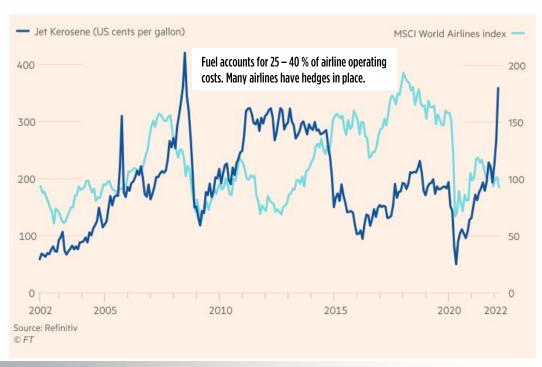




Rebounding air travel – but risk for 'toxic war-cocktail'

Strong transatlantic traffic bookings — Implications of war likely to lower demand: uncertainty, higher inflation & less disposable income

- ☐ Fuel is 25 % 40 % of OPEX for airlines Many airlines are hedged and some can put on ticket surcharges to offset some pain
- Airspace closed and 'unfriendly skies' redrawing air routes adding costs to airlines and travel time for passengers Middle-East carriers can benefit
- Supply constraints such as for titanium
- Russia's VSMPO-AVISMA has 25% of global titanium market
- ☐ Airbus relies on Russia for 1⁄2 of titanium needs and Boeing 1/3
- ☐ Aerospace firms have built up inventories







CTT has paused all shipments to Russia

Facts - CTT in Russia:

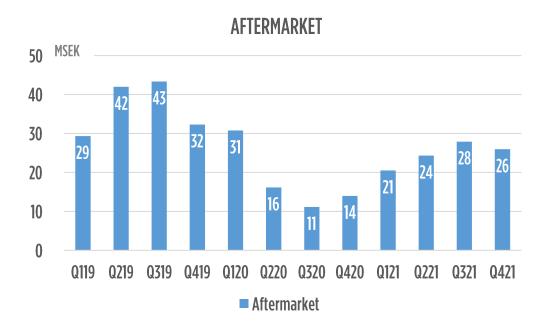
- Percentage of CTT's total sales 2021: Approximately 4%
- **☐** Aftermarket sales <1MSEK
- No employees in Russia / Ukraine
- No suppliers in Russia / Ukraine



Aftermarket sales expected to increase in 2022

Q1 - Pause in upward trend - Omicron delaying rebound and growth a few months

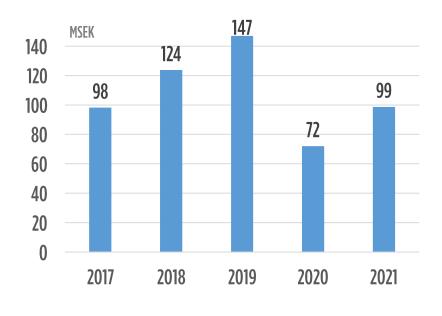
- More products flying totally on A350 and Boeing 787 vs pre-pandemic
- Boeing 787 fleet restored to 99 % high growth rate when 787 deliveries resume on 100+ readybuilt inventory a/c
- A350 aftermarket higher in 2021 vs 2019 continuous growth in 2022



Growth drivers going forward: Intercontinental flights – Longer flights – Higher utilization per aircraft

- (more flight hours)

 Population growth:
- □ 110 Boeing 787 in inventory + build-rate 1 -2 to 5
 - ☐ A350 fleet increasing build–rate of 5 per month



Diversified and global customer base

Commonality, experience and reliability drives demand - Airlines mirror and migrate to cabin

5 largest customers

UNITED





American Airlines



61%





Mirroring airlines

rests.







AIRFRANCE /









- China Southern Airlines
- American Airlines
- Japan Airlines
- Air Canada
- Hainan Airlines
- All Nippon Airways
- Etihad Airways
- Air China
- British Airways
- Others (40+ airlines)

Air China's first A350 delivered in August 2018 mirroring its 787 fleet: Humidifiers in flight deck and both crew



China Eastern's first A350 in November 2018 – Equipped as its 787–fleet with humidifiers in flight deck and both crew rests.



China Southern's first A350 in July 2019 – Mirroring its 787 fitting with humidifiers in flight deck and both crew rests plus cabin

6%

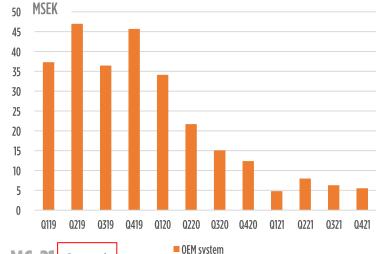




OEM lagging but strong position when recovery starts

OEM not likely to significantly contribute to growth in 2022 - Boeing 787 issues take longer time than Boeing previously anticipated

- Boeing 787 at low build-rate (1 2 per month)
- ☐ Airbus currently targeting A350 build-rate to increase to 6 in 2023
- Boeing still expects to deliver first 777X in end-2023
- MC-21 type certificate in Dec 2021 targeting entry-into-service in Q3 2022
- ☐ Aircraft production rates higher in H1 2023 lead by A350



Boeing 787

- Awaiting regulatory approval for pre-delivery inspections on reworked aircraft in inventory
- Industry view for restarting 787-deliveries in April
- Meanwhile producing the 787 at a very low rate Expected gradual return to five airplanes per
- month over time
- Penetration at max only more content (cabin humidifier) or higher production

Airbus A350

increase

- Guided higher production rate in Q3 2022, up from 5 per month to 6
- Many large CTT customers with remaining humidifier orders

Max content – Only via penetration and rate

Boeing 777X

- ☐ Certification delayed☐ Boeing reiterated EIS late2023
- Max content Only via penetration and ramp-up

MC-21 Paused

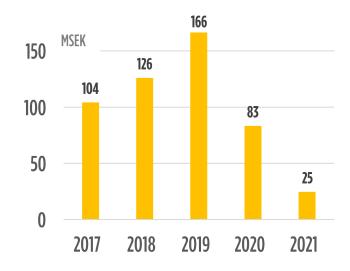
- Type certificate Russia in December 2021
- Targeted EIS in Q3 2022
- Basic Only ramp-up and more content



OEM opportunity road-map

Higher selection – Higher a/c production rate - More content - New programs

- Boeing 787 humidification SFE for business class cabin performance equal to A350 / 777X
- Boeing 737 MAX A321 Family incremental upgrade opportunities
- New aircraft models (Boeing NMA)



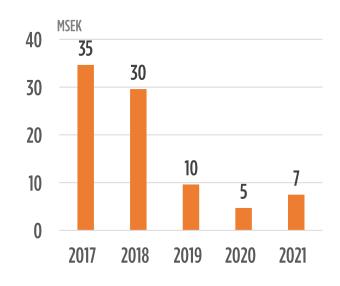
	More content	Higher selection		More content	Incremental upgrades - New Programs		
Passenger cabin	i			†	Airbus A321LR/XLR	CRAIC CR929	Boeing NMA
Flight deck	187	25		Paused	Airbus A321LR/XLR	CRAIC CR929	Boeing NMA
Crew rests	787 0					CRAIC CR929	
Anti-Condensation				ŧ	Airbus A321 Family Boeing 737 MAX	CRAIC CR929	Boeing NMA

The anti-condensation opportunity

Moisture protection market driven by sustainability and oil at 13 year high

- Anti-Fuselage-Condensation (A320 / Boeing 737)
- Boeing MAX Efforts to obtain STC for Boeing 737 MAX









The cabin humidification opportunity

Air quality and health in focus - Benefit versus cost compelling - Driven by wellbeing and wellness

- ☐ Growing airline interest in cabin air quality / humidity / wellness
- ☐ Short-term limited number of refurbishment programs
- ☐ Projects conditional on re-start of intercontinental travel

- Retrofit
 opportunity:
 1,000 Boeing
 787 aircraft
- Humidification system for the business class at a cost <50% of the cost to retrofit 1 new business class suite

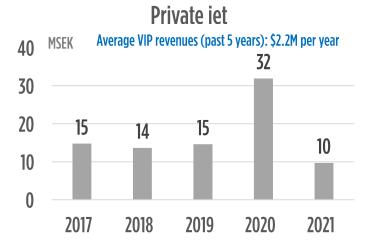




The private jet opportunity

Dominating the widebody VIP segment — Poised to grow into large cabin bizjet segment

- Widebody VIP and narrowbody VIP markets are not growing
- Narrowbody penetration higher is a growth opportunity
- ☐ Large cabin business jets is a new segment with huge potential







#1 Airbus ACJ320 business agreement

Higher penetration on ACJ320 — Standard for climate and bolt-on-kit

- ☐ Cooperation with Airbus ACJ to offer optimized humidification for the ACJ320 VIP Family
- Promoted by Airbus
- Bolt-on-kit delivery More scalable vs VIP projects together with completion centers

	Completion projects	OEM project	Kit + STC	Addressable Market (per year)	Entry-into- Service
ACJ320			$\sqrt{}$	\$1.5M	In-service



#2 The ACJ TwoTwenty business jet opportunity



BREAKING AWARD

CTT selected by ACJ to develop IFH for TwoTwenty aircraft

RECENT NEWS



08.00 2022-03-17

Airbus Corporate Jets selects CTT to develop Inflight Humidification system for the ACJ TwoTwenty aircraft

#3 Large-cabin bizjet market is a huge opportunity

OEMs are key — Strong references in VIP to successfully migrate in large cabin bizjets

- Large-cabin, long-range business jets 50 100 a/c per year
- □ Long-range (10+ hours) Equipped for best comfort Humidification system required







	Completion projects	OEM project	Kit + STC	Addressable Market (per year)	Entry-into- Service
Bombardier Global 7500				\$10M	In-service
ACJ TwoTwenty				\$3M	2023

BREAKING NEWS: Selected





☐ Unaddressed market: \$15M per year

The freighter opportunity

OEM is key but also opportunities in P2F programs and retrofit installations

- Freighter OEM: A350F launched with EIS 2025 Boeing 777XF launched in Q1 2022
- ☐ Passenger-to-freighter conversion programs (P2F)
- Retrofit modern air cargo aircraft: Boeing 777F and Boeing 767F











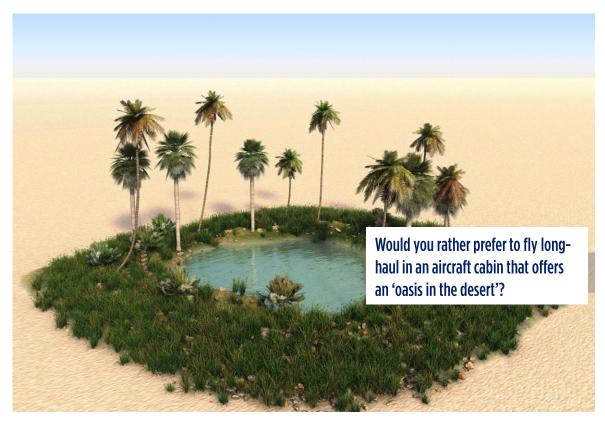






Market drivers stronger in the wake of the pandemic

Focus on air quality and wellness — Demand for green tech to reduce carbon footprint





Leading position and projects for growth – Power to invest







